CIPE
AUG 1 8 2005
TRADEMARK OFFICE

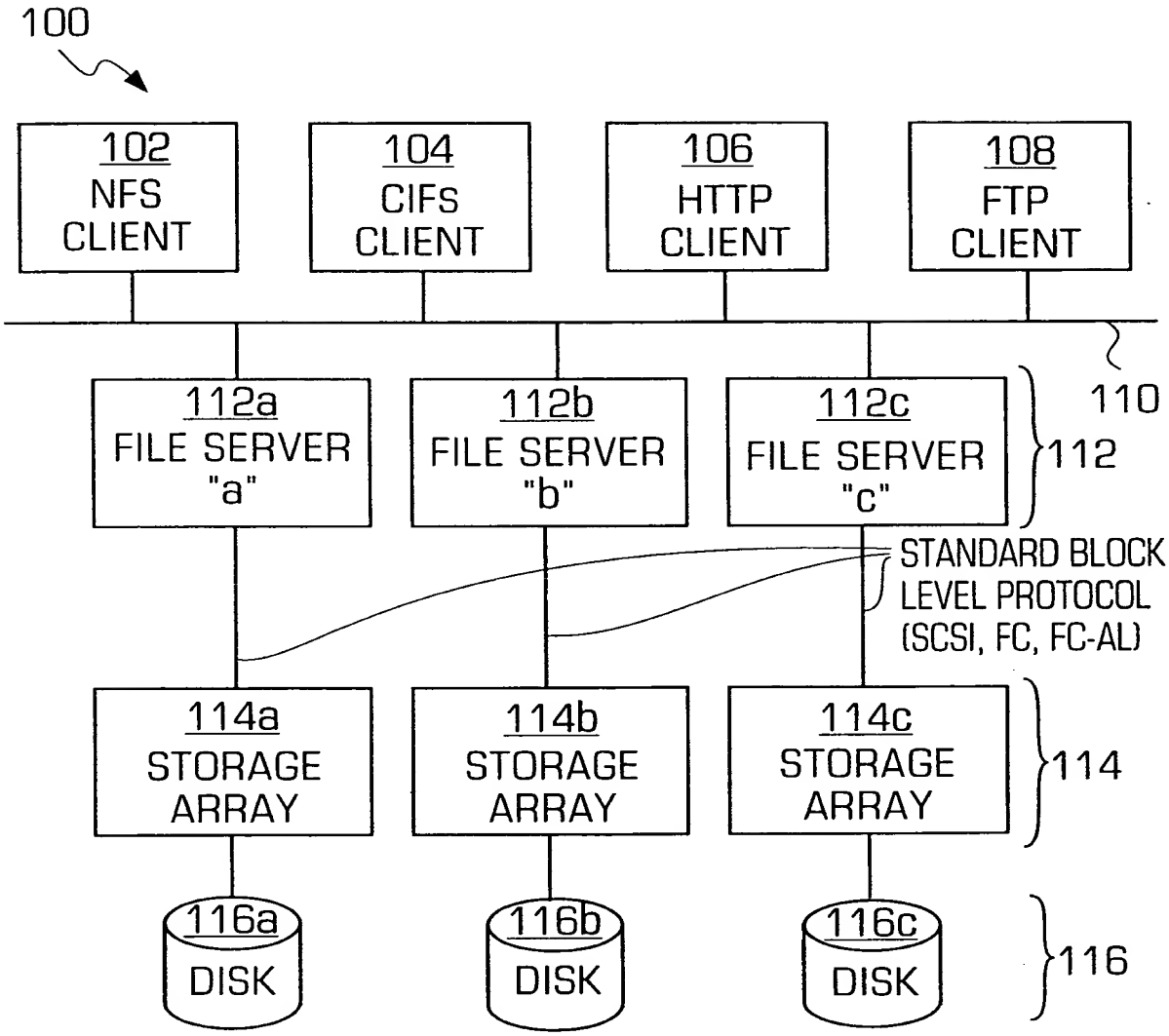


FIG. 1
(RELATED ART)

CIPE
AUG 18 2005
PATENT & TRADEMARK OFFICE

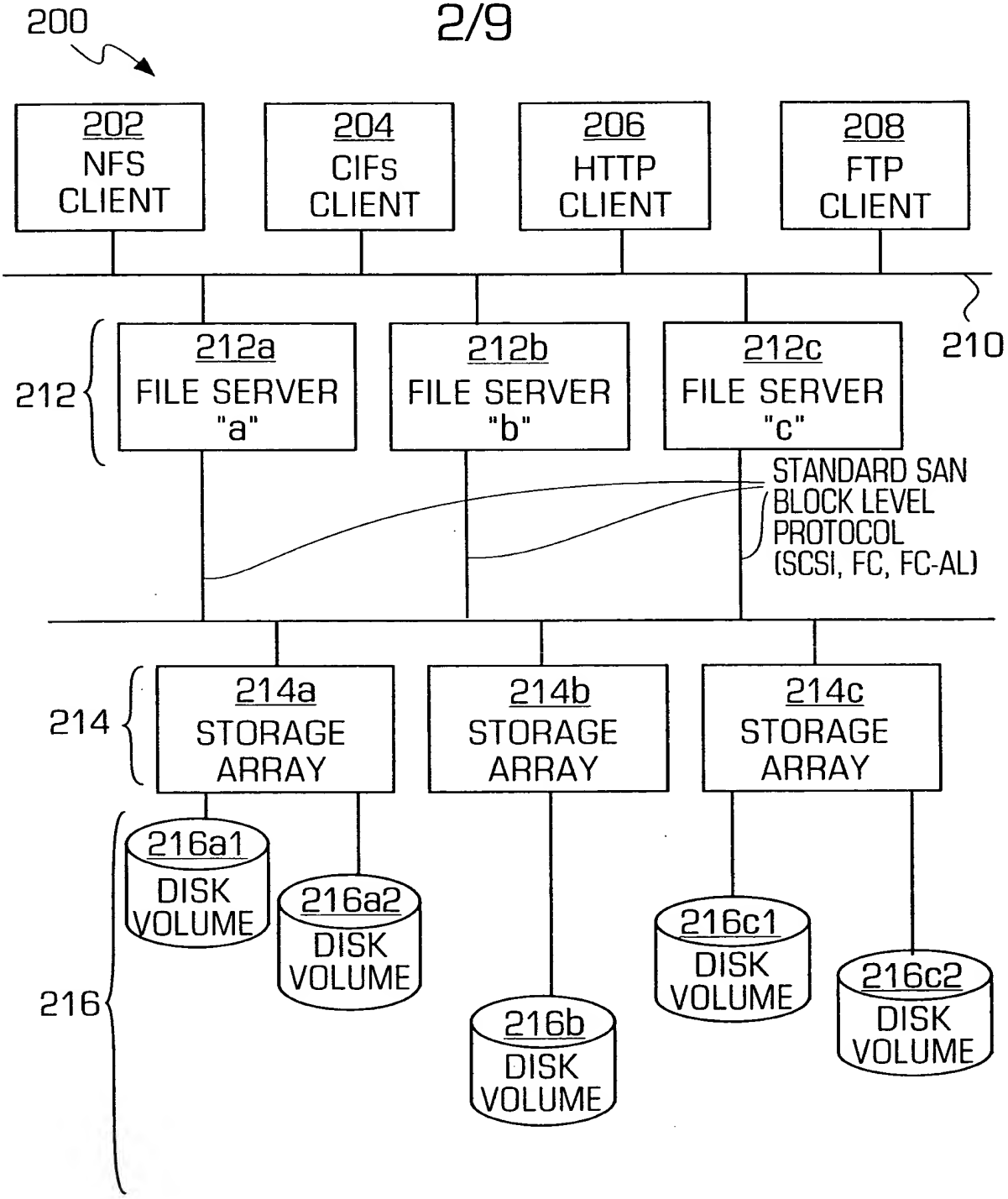
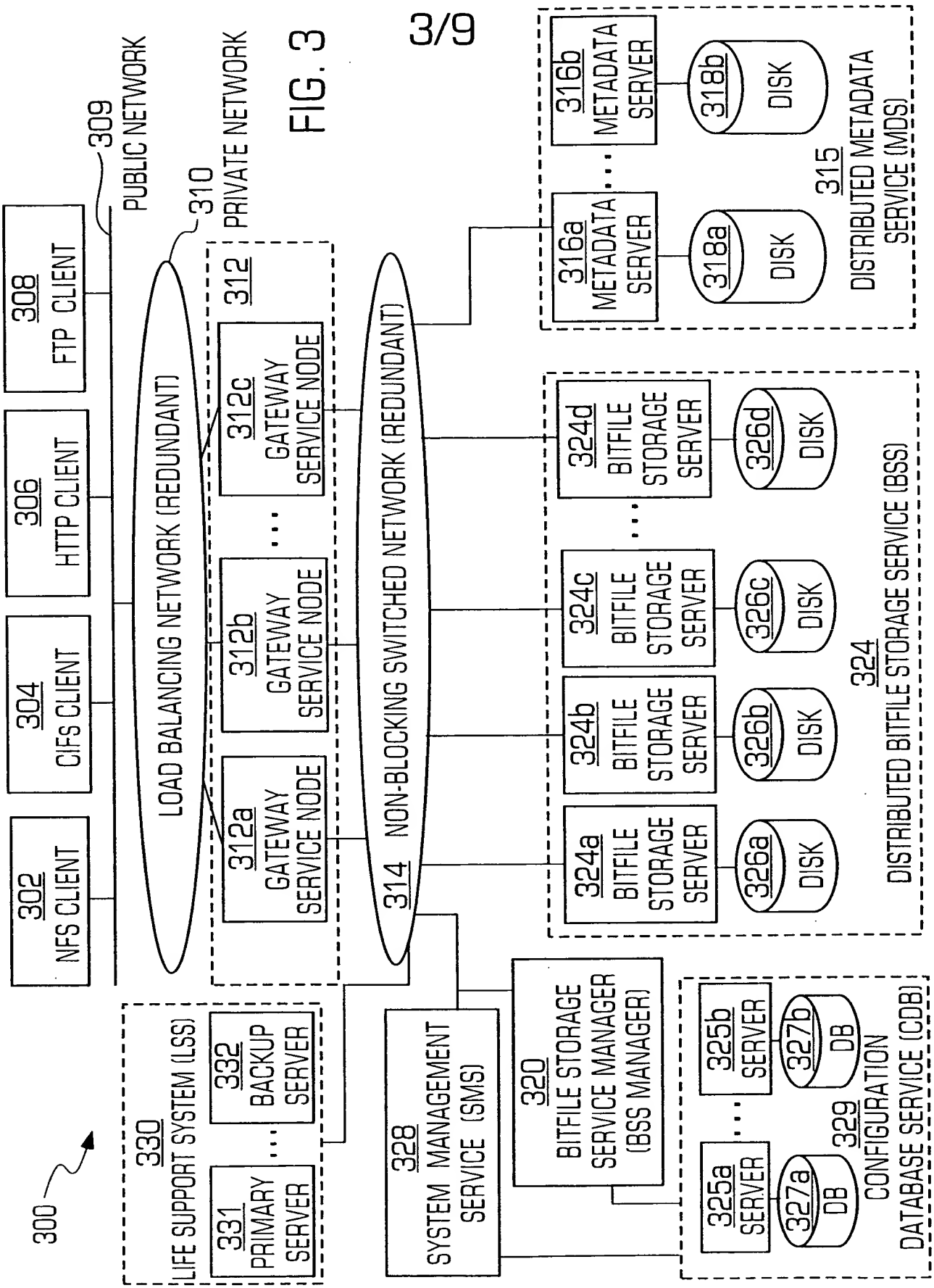


FIG. 2
(RELATED ART)

OIPE
AUG 1 8 2005
TRADEMARK OFFICE

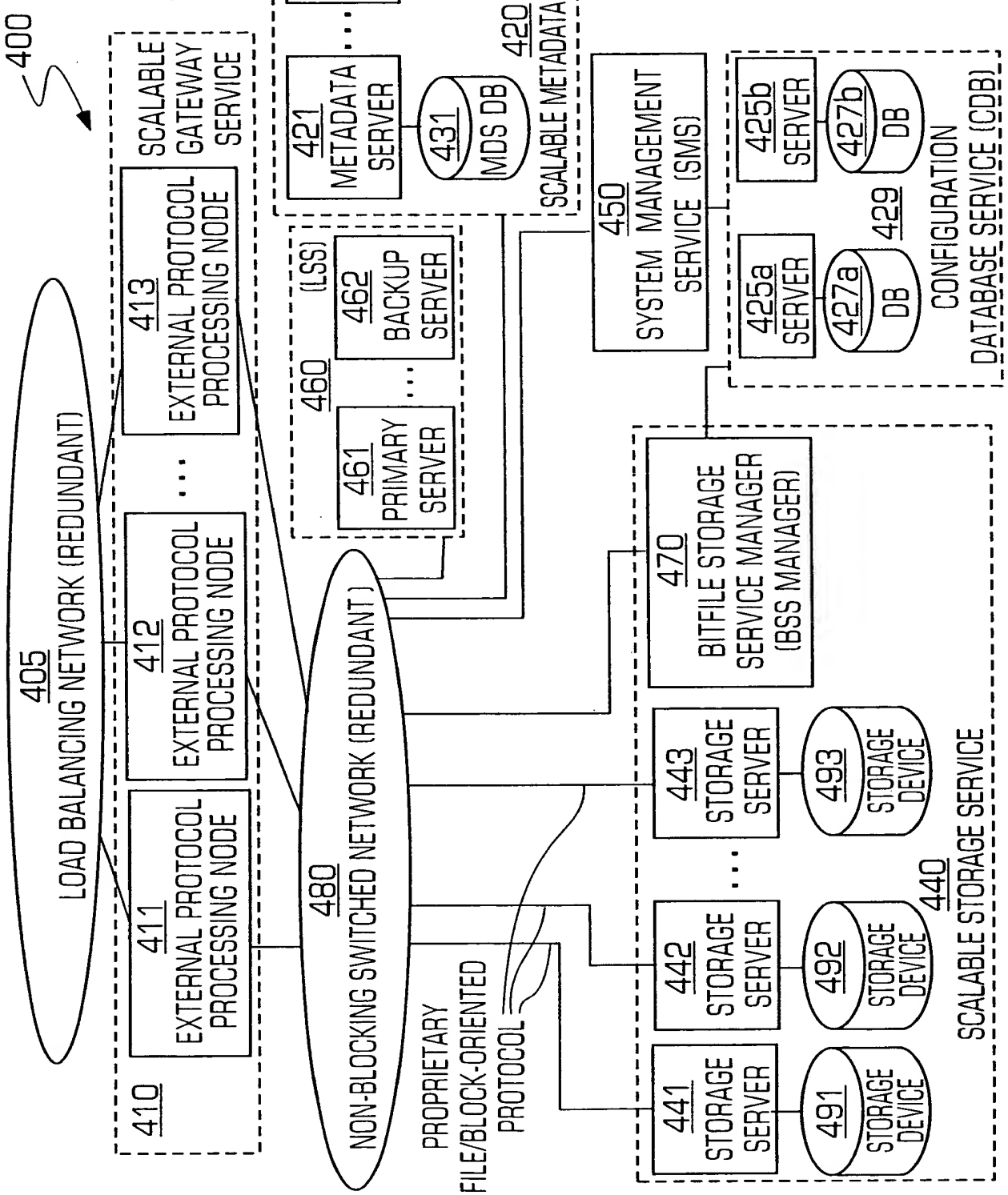
3/9

FIG. 3



C I P E
AUG 1 8 2005
PATENT & TRADEMARK OFFICE

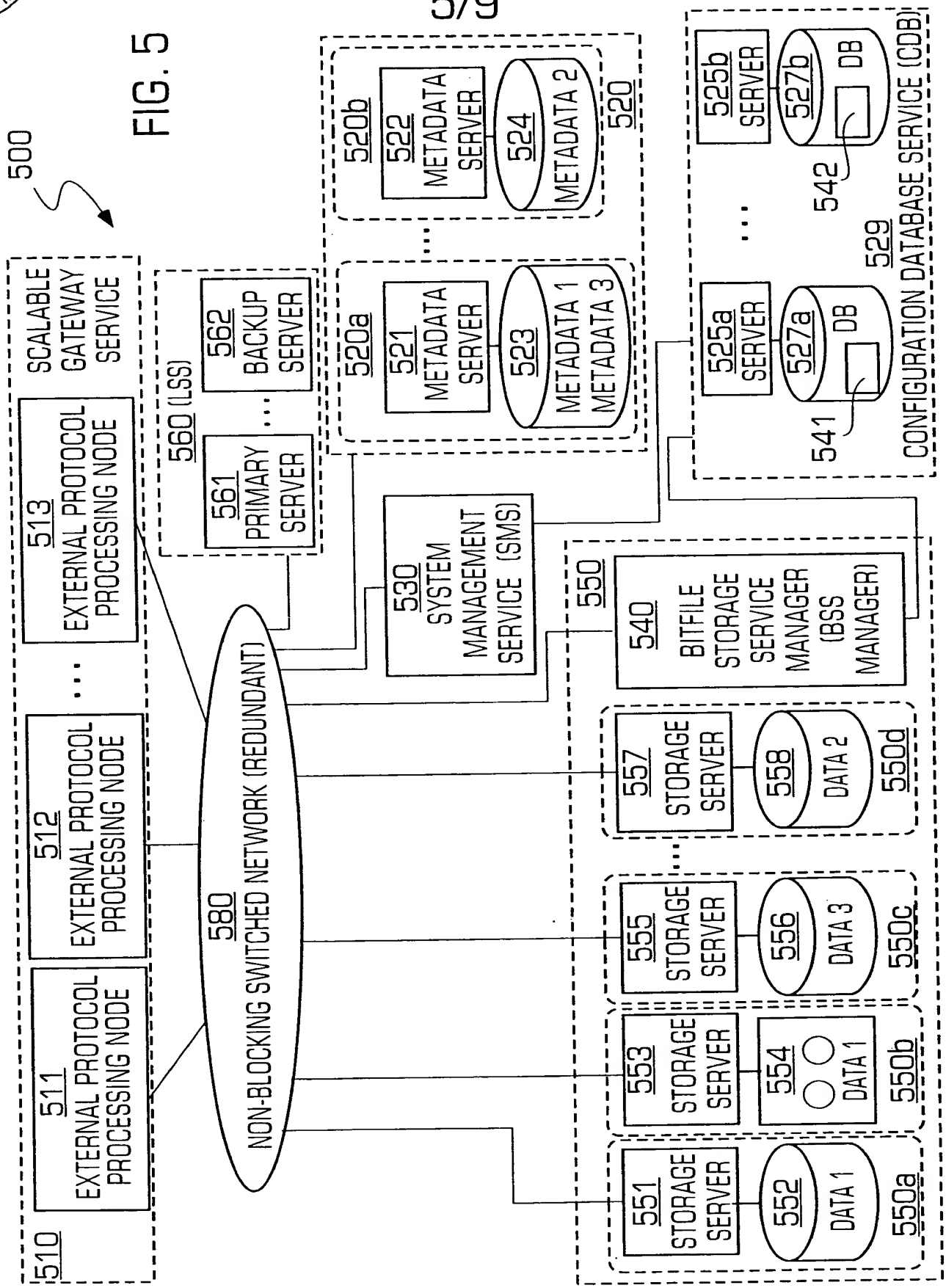
FIG. 4



C I P E JC141 AUG 1 8 2005 PATENT & TRADEMARK OFFICE

5/9

FIG. 5



O I P E
JC141
AUG 18 2005
PATENT & TRADEMARK OFFICE

6/9

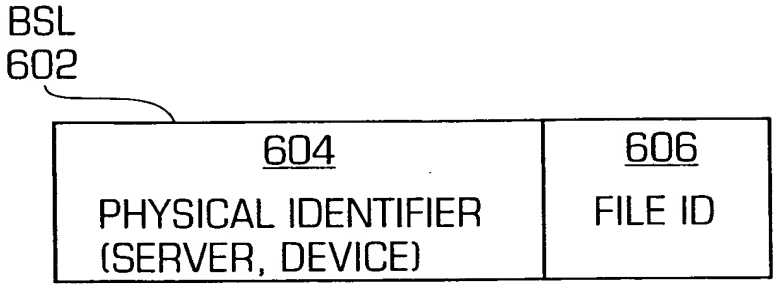
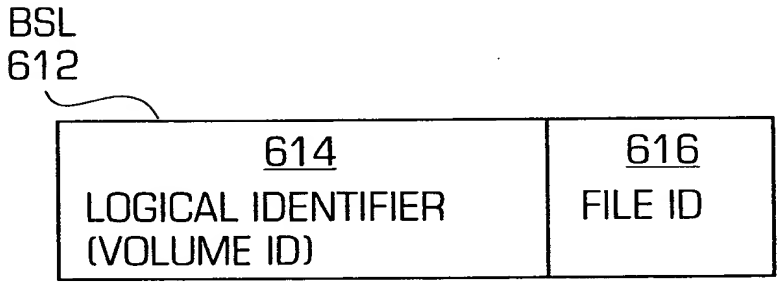


FIG. 6A



TABLE

LOGICAL IDENTIFIER	PHYSICAL IDENTIFIER
VOL. 1	(SERVER X, DEVICE X)
VOL. 2	(SERVER Y, DEVICE Y)
⋮	⋮

FIG. 6B

OIPE JC141 AUG 18 2005 PATENT & TRADEMARK OFFICE

BSL 612

TABLE 632

614 LOGICAL IDENTIFIER (VOLUME ID)	616 FILE ID

VOL. ID	MIRRORS
VOL. 0	VOL. 1, VOL. 2
⋮	⋮

TABLE 633

LOGICAL IDENTIFIER	PHYSICAL IDENTIFIER
VOL. 1	(SERVER X, DEVICE X)
VOL. 2	(SERVER Y, DEVICE Y)
⋮	⋮

FIG. 6C

BSL 642

644 LOGICAL IDENTIFIER (VOLUME ID)	646 INDEX	648 FILE ID

650

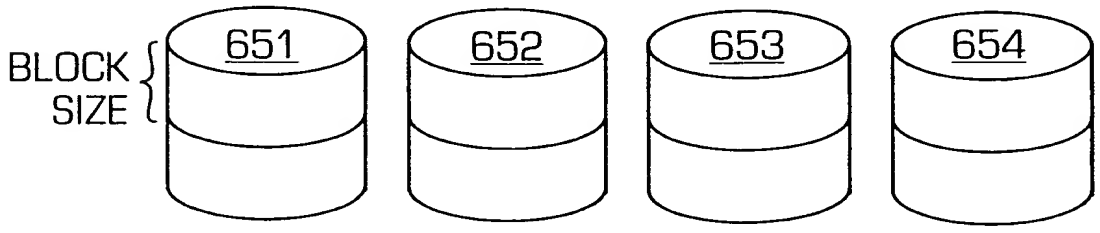
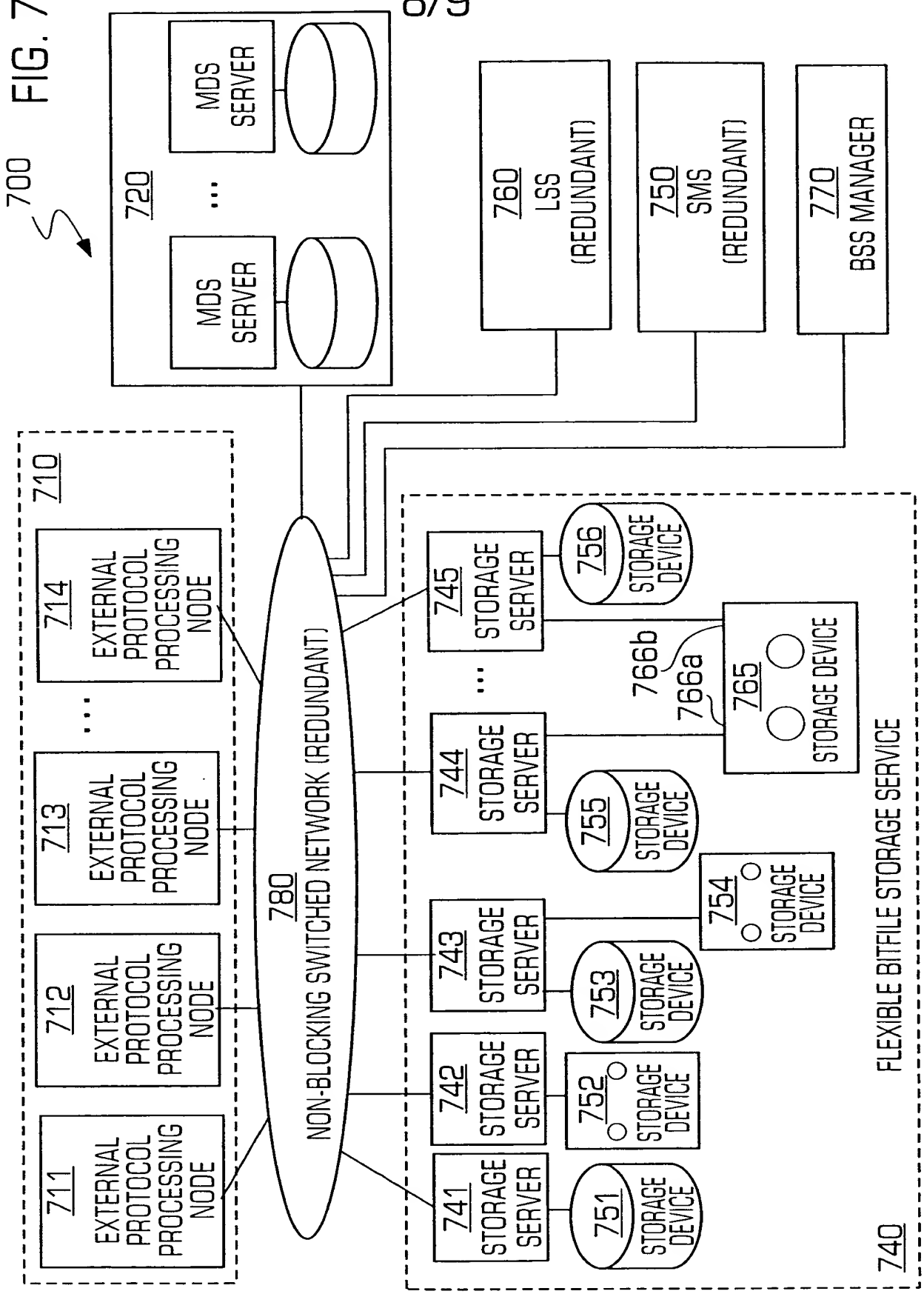


FIG. 6D

OIPE JC141 AUG 18 2006 PATENT & TRADEMARK OFFICE

8/9

FIG. 7



OIPE JC141 AUG 18 2005 PATENT & TRADEMARK OFFICE

9/9

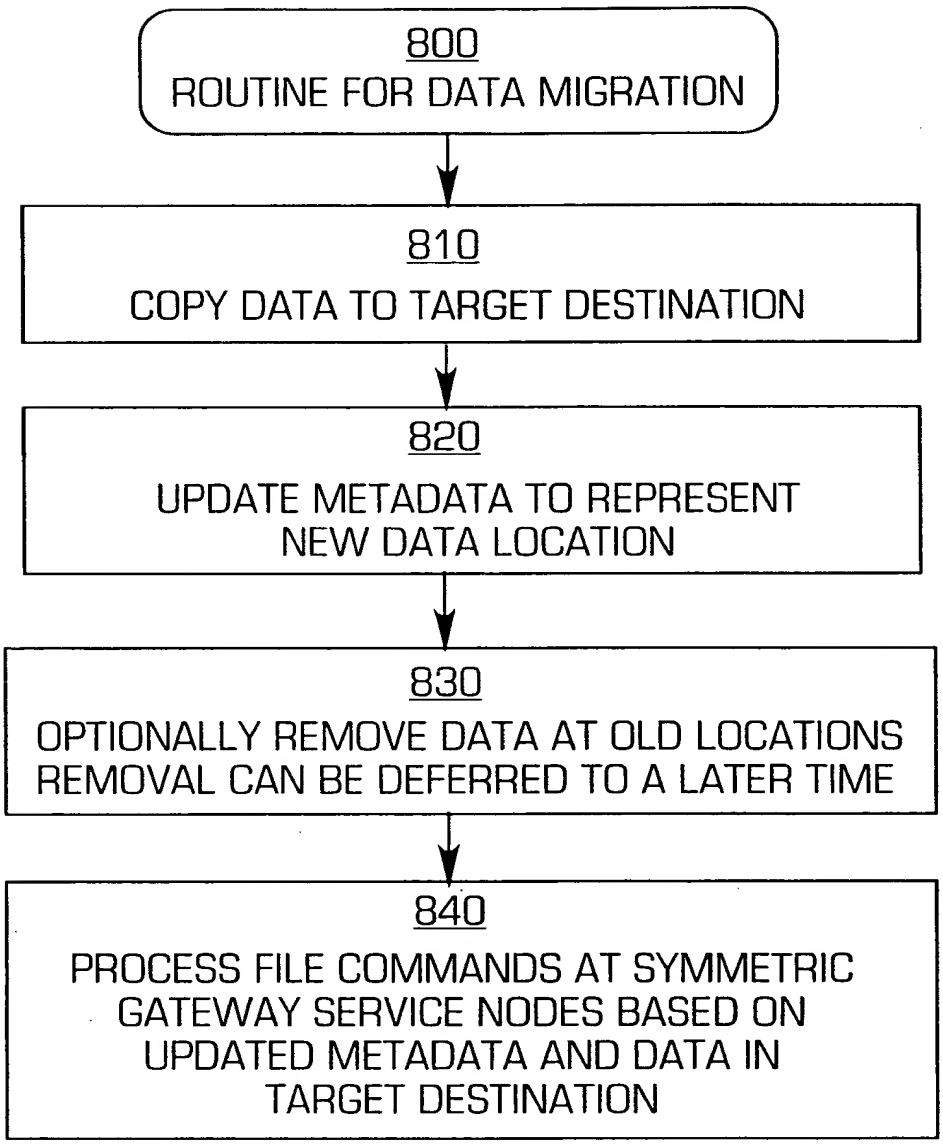


FIG. 8